

Infiltration Construction Checklist

This checklist has been designed for infiltration practices constructed in accordance with the Delaware Sediment and Stormwater Program's Post Construction Stormwater BMP Standards and Specifications

PROJECT INFORMATION

Project Name: _____

Location: _____

Contractor: _____

Construction Reviewer: _____

Date(s) / Time(s) of Inspections: _____

KEY:

✓

Item meets standard

X

Item not acceptable

N/A

Item not applicable

I. Pre-Construction

_____ A. Facility location staked out. Extents of infiltration practice (to include pre-treatment area) delineated and access by equipment prohibited to prevent compaction of existing soils.

_____ B. Upstream drainage area stabilized or effectively diverted.

_____ C. Materials on-site and dimensions and properties checked.

_____ (1) Underdrain/discharge pipe

_____ (2) Overdrain/discharge pipe

_____ (3) Underdrain stone

_____ (4) Geotextile fabric

_____ (5) Sand

_____ (6) Supplemental storage pipe

_____ (7) Outfall pipe

_____ (8) Riser pipe

_____ (9) Observation ports

_____ D. Equipment on the site large enough to excavate infiltration area from the sides of the facility.

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II. Excavation

- _____ A. Facility excavated to dimensions and at location as per the approved plan.
- _____ B. Stepwise excavation used for infiltration facilities.
- _____ C. Facility excavated from the sides so as to not compact the existing soil.
- _____ D. Groundwater not encountered during excavation.
(Note: If groundwater is encountered during the excavation process, construction of the facility must cease and the designer notified that a plan modification is necessary)
- _____ E. Sides of infiltration trench excavation vertical.
- _____ F. Bottom of excavation within design slope range.
- _____ G. Bottom of trench excavation scarified prior to placement of sand.
- _____ H. Geotextile fabric placed along the vertical sides of the trench, tuck into sand at the bottom for anchoring.

III. Structural Components

(For infiltration practices containing underdrains and/or overdrain pipe discharge components)

- _____ A. Discharge pipe installed from overdrain to discharge point.
Discharge pipe diameter: _____
Discharge pipe material: _____
- _____ B. Outlet protection provided at discharge point.
- _____ C. Underdrain pipe material according to approved plan. (Note: If underdrain pipe material is not specified, it shall be SDR 35 minimum)
Underdrain pipe material: _____
- _____ D. Underdrain pipe sizes according to approved plans.
Underdrain pipe diameter(s): _____
- _____ E. Underdrain pipe perforations according to approved plans.
(Note: If not specified on the plan, three rows of 5/8" diameter perforations, 6" on-center, shall be provided)
- _____ F. Underdrain piping lay flat or with positive slope toward outlet.
- _____ G. Clean-outs and/or observation ports provided at endpoints of underdrain pipes or as shown on the approved Plan.
- _____ H. Double-washed crushed aggregate, clean DE #57 stone, used for the underdrain gravel. Stone free of rock dust, fines and soil particles.
- _____ I. Depth of stone over underdrain piping checked. **Depth of stone:** _____

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IV. Grading

- _____ A. Channel protection and/or level spreader provided at infiltration practice inlets as specified on the approved plan.
- _____ B. Side slopes of infiltration basin no steeper than 3:1.
- _____ C. Bottom of basin graded as per the Plan.
- _____ D. Earth spillway constructed to design elevation and dimensions.

V. Vegetation

- _____ A. Vegetation planted on the bottom and slopes of the basin as indicated on the vegetation spec on the Plan.
- _____ B. For trenches, placement of topsoil and sod over the pea gravel, if this option is specified on Plan.

VI. Erosion and Sediment Control

- _____ A. Installed matting in spillway as specified on Plan.
- _____ B. For trenches, geotextile emerges from the sides of the trench and folds over stone to protect against sediment contamination during site construction.